

This three-inch solid cedar house was built by four men in 12 working days on a Central Mortgage and Housing Corporation project in Vancouver for a total cost of . . .

\$4,500

SOLID CEDAR Construction



A modification of the plank wall construction principle made it possible for this fully-insulated, four-room house to be completed in 16 working days at a total cost of . . .

\$4,800

SOLID CEDAR CONSTRUCTION CUTS BUILDING COSTS!



In addition to saving time and money

during construction . . . SOLID CEDAR GIVES YOU

Three inches of cedar has insulating qualities equal to 13 inches of ordinary brick or 21 inches of concrete. It also has definite sound-· COMFORT absorption properties.

Tests show that a solid cedar building offers a high degree of resistance to fire and prevents to a large extent the danger of collapse

Laboratory tests and actual performance prove or disintegration. that Western Red Cedar has a high durability rating under conditions favorable to decay. · DURABILITY Permanency is also achieved because of the

substantial solid wall. Solid cedar construction is readily adaptable to any style of architecture. Enlarging or remodelling is relatively simple. It also can · FLEXIBILITY provide a minimum cost dwelling that permits finishing to individual tastes as time and money are available.

Few woods are as ideally suited to a wide variety of finishes. The natural beauty of knotty cedar can be retained or it can be modified by preservative stains. Resin-based paints can be used to cover the knots and achieve a unique textured surface.

In Canada, provision is made for this type of construction under section 3.2.14.2 and · ACCEPTABILITY 3.2.17 of the National Building Code.

THE physical advantages of Western Red Cedar as a building material—its vigorous resistance to decay, its lightness and strength and, above all, its low shrinkage factor and high insulation value—have long been recognized. From time to time during the past decade farseeing architects and builders have worked to develop a type of construction which would employ the unique properties of cedar to full economical advantage. Occasional published reports have indicated favorable

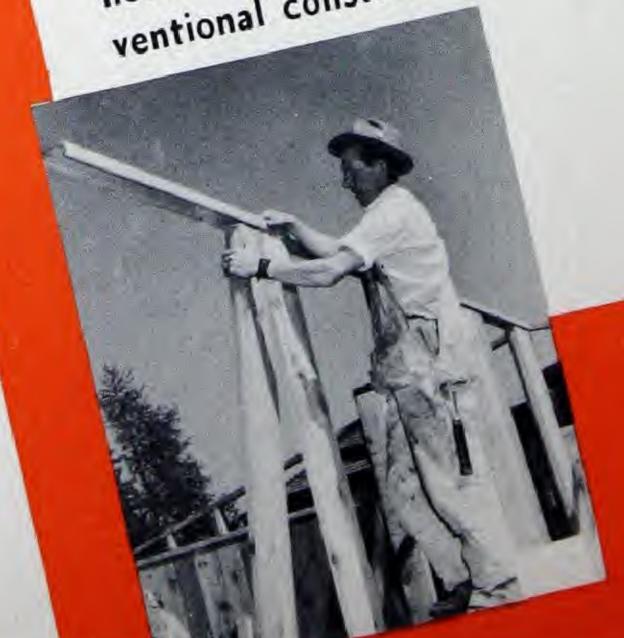
results. One report from Hull, England, for example, shows that definite economies were realized on a group of semi-prefabricated, solid cedar duplexes that were

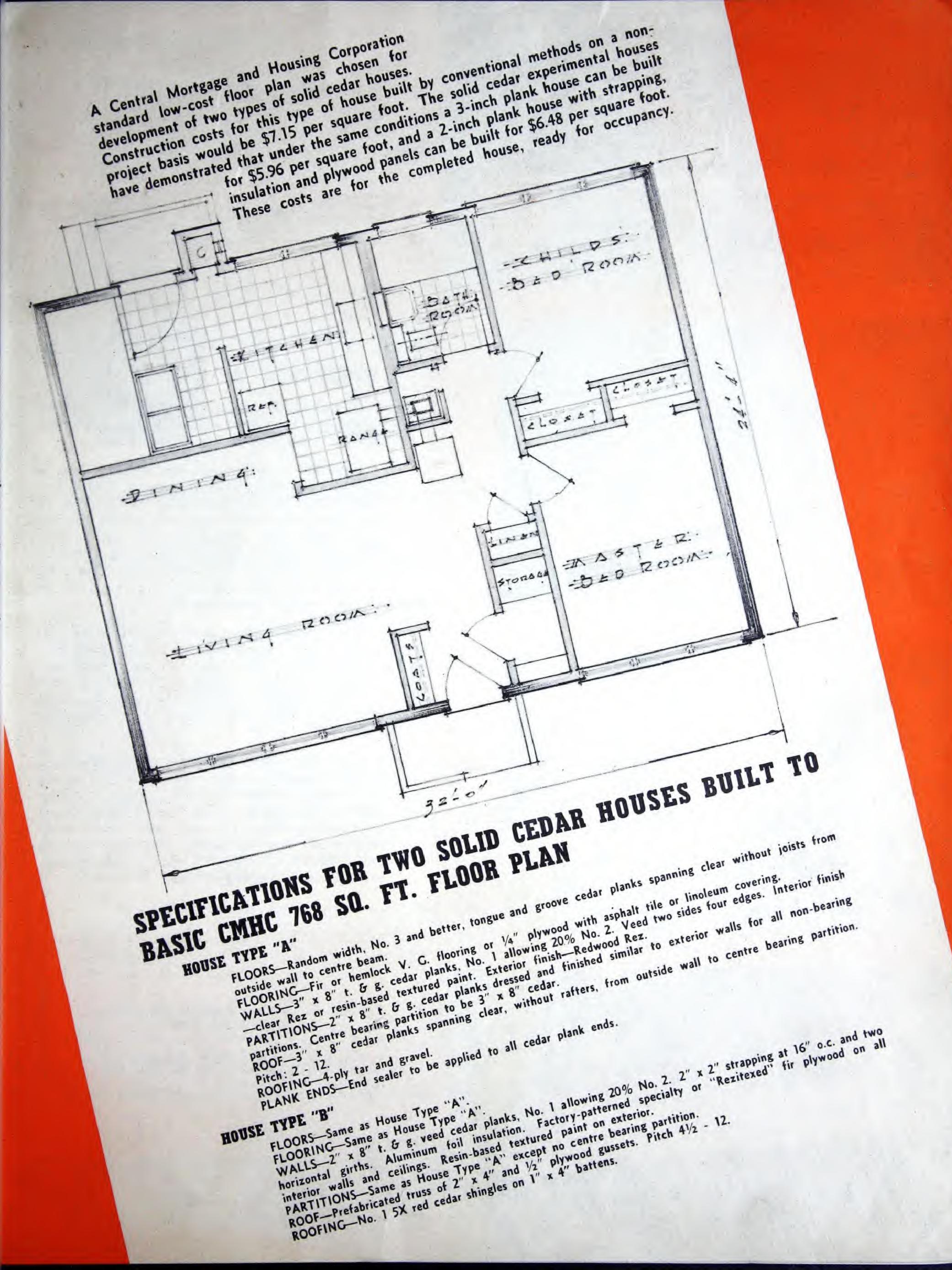
Many of the past reports on solid cedar construction have not provided a factual basis for true cost and time completed in eleven days. comparison with conventional methods of building. But now, in Vancouver, test construction of two solid cedar houses built to standard Central Mortgage and Housing Corporation floor plan specifications proves that solid cedar construction does cut building costs and presents, in addition, several advantages not normally found in con-

ventional houses.

The two experimental houses treated in detail in the following pages were developed by the Vancouver Architectural firm of Semmens and Simpson. The costs given for the houses are from the actual records of W. P. Perkins and Co., under whose supervision a four-man working crew erected both houses in approximately five

The record is conclusive. On one house the contractor's saving over conventional methods of construction amounts to 16.6% of the total cost of the house. On the other weeks. house—a compromise between true solid cedar and conventional construction—the saving is 9.3%.







- 1. Floor joists are eliminated. Sub-floor of 3" tongue and groove cedar planks spans clear from outside walls to centre beam.
- 2. Three-inch planks are erected vertically to form solid outer walls and centre bearing partition. No further insulation is required for temperate climates.





The house pictured at the top of the front cover of this booklet is shown in this series of eight photographs as it appeared during construction.

Designed to make maximum effective use of Western Red Cedar as an all-purpose building material, this type of construction is ideal for all occasions where speed of erection and low cost are important factors. Adequate shelter can be provided with a minimum of time and expense. Insulation and panelling of walls can be undertaken after occupancy if desired. For severe climates, insulation of outer walls is recommended.

Many variations in construction details are possible with this system of building. One highly-recommended modification would be to use a low-cost, random width, No. 3 grade of 3-inch cedar plank and apply tar paper and any type of exterior and interior finish that is desired directly over the wall.

Three-inch cedar construction is particularly suited to garages, summer camps and tourist cabins. As illustrated elsewhere in this booklet it can be used to advantage in various industrial, commercial and farm buildings. The veed cedar planks, when treated with Redwood or clear Rez, give a modern rustic effect. The vertical lines can be further emphasized by applying battens.

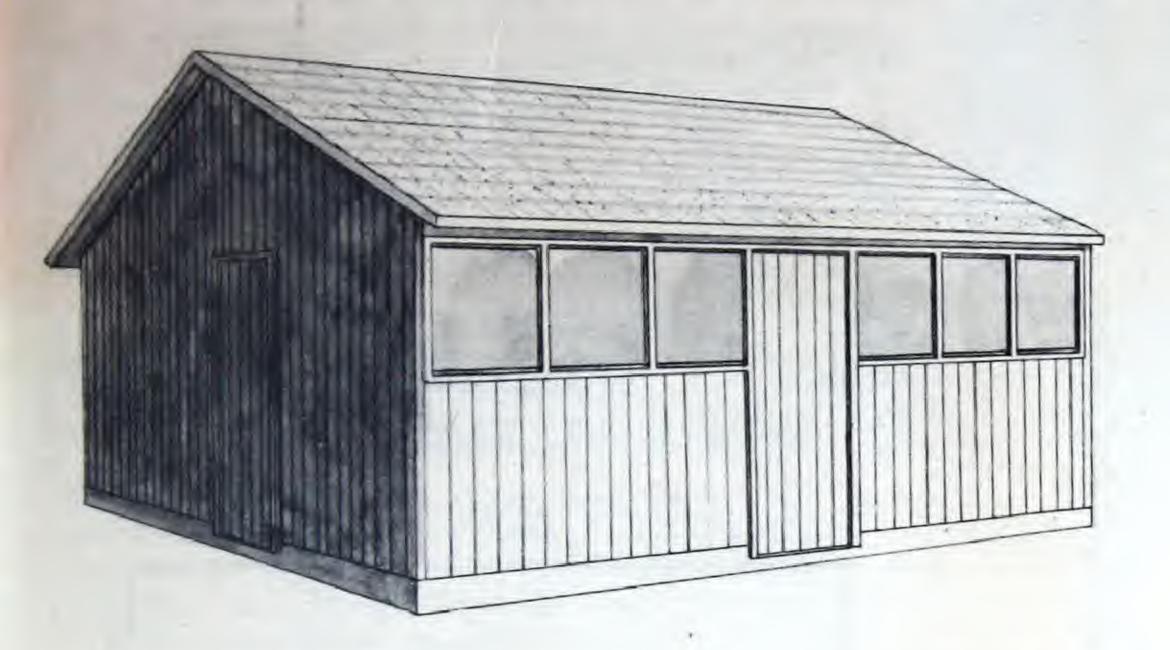




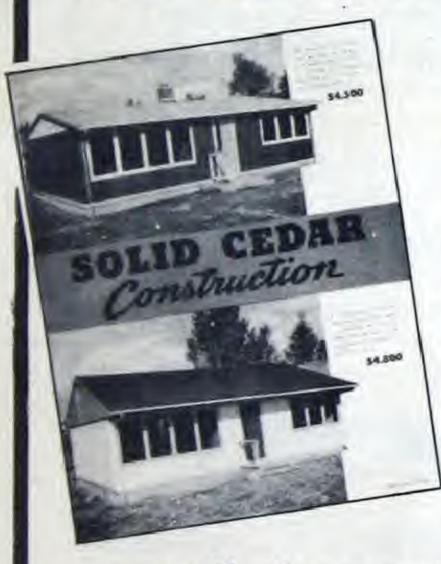
- 3. Window sash and door frames are channelled to fit over planks giving a weather-tight joint.
- 4. Three-inch cedar planks span from outer walls to centre bearing partition on this low-pitch rafter-less roof.

IT COSTS LESS ...

TO BUILD A SOLID CEDAR HEN HOUSE



Use Solid Cedar for Your Home Too



Recent test construction in Vancouver of two Solid Cedar homes has proved conclusively that this building method offers revolutionary savings in time and money. In one case the actual saving over conventional methods was as much as 16.6% of the total cost of the house!

The attractive, 12-page booklet

"Solid Cedar Construction"—
tells you the whole story. Step by
step photos taken during actual
construction, illustrate how maxi-

mum effective use can be made of this remarkable allpurpose wood. Where speed of erection and low cost are important factors Solid Cedar is ideal.

In addition to the many advantages Solid Cedar possesses for general construction purposes, few woods offer as much natural beauty for interior finish effects. Architects everywhere freely specify cedar joinery for its rich and varied appearance in the home.

If you have not already seen the Solid Cedar booklet, send for your free copy to-day. It will show you how Solid Cedar can match economy with quality when you build your new home.

Solid Cedar is the modern answer to your single-handed problem. You can build quickly and economically when you use Western Red Cedar. And you can be sure of lasting service when you are through.

Work sheets for a variety of Solid Cedar farm buildings are available free upon request. Simply write the B.C. Coast Woods Trade Extension Bureau specifying the type of building you wish to construct.

Check these advantages of Solid Cedar:

· Economy.

Test construction proves Solid Cedar offers savings up to 16% over conventional building methods.

Durability.

Laboratory tests and actual performance prove Western Red Cedar is extremely durable and strongly resists decay. The substantial wall also ensures permanency.

Flexibility.

Enlarging or repairing is made easy with Solid Cedar. No other soft wood has as wide a range of usefulness.

Safety.

Tests show that a Solid Cedar building is highly resistant to fire and prevents to a large extent the danger of collapse or disintegration.

· Insulation.

Three inches of Cedar has insulating qualities equal to 21 inches of concrete.

B.C. COAST WOODS



TRADE EXTENSION BUREAU

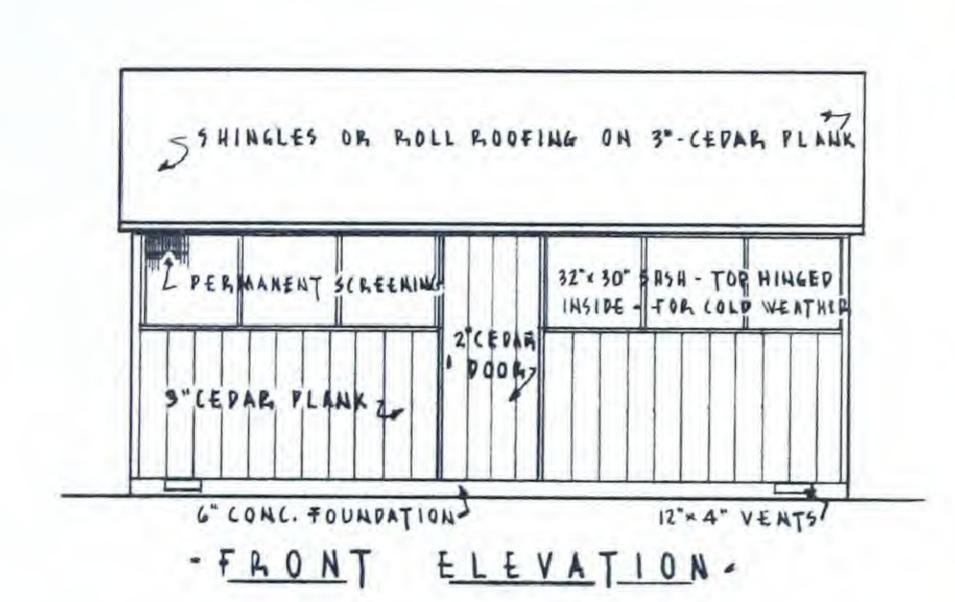
VANCOUVER, B. C., CANADA

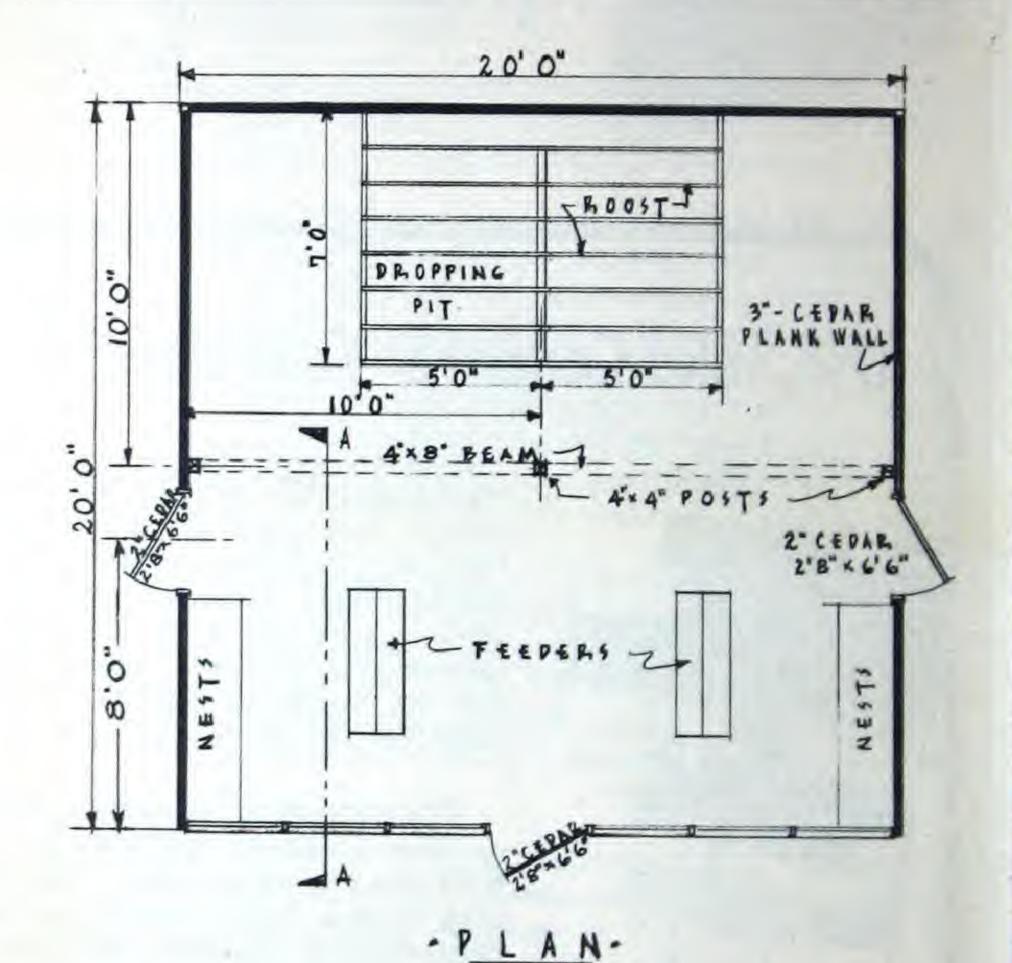
TO BUILD A SOLID CEDAR HEN HOUSE

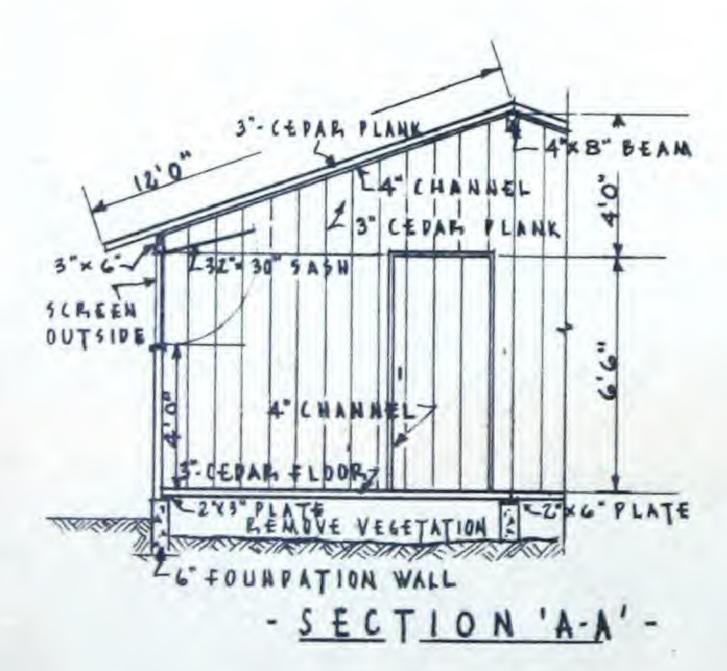
MATERIALS REQUIRED:

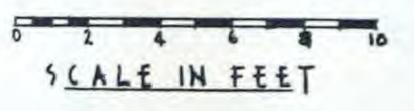
Western I	Red Cedar	t. & g. 3" x 7"	t. & g. 3" x 7"	
		Pieces	Length	
ROOF		56	12'-0"	
WALLS	front	29	4'-2"	
	side	35	18'-0"	
	back	35	7'-6"	
FLOOR		70	10'-0"	
DOOR		5	6'-6"	
CORNER POST		Lin.	26'	

	Pieces	Length
BEAM 4 x 8	2	10'-0"
POST J4 x 4	3	11'-0"
3 x 6	Lin.	20'
PLATE 2 x 3 & MULLIONS	Lin.	60'
PLATE 2 x 6	Lin.	20'
CHANNEL	Lin.	34'
SILL	Lin.	17'





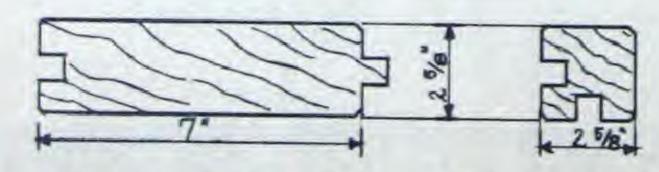




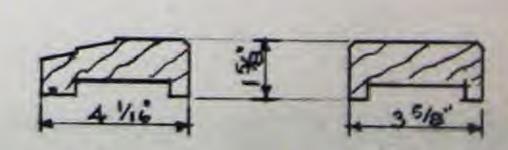
NOTE:

- APPITIONAL UNITS CAN BE APPED TO EITHER END.

- BEAMS, POSTS, SILLS, AND CHANNELS ARE PACIFIC COAST HEMLOCK OF DOUGLAS FIR.



SCALE IN INCHES



- WALL PLANK .

- CORNER POST -

· SILL -

- CHANNEL. (USED FOR HEAD & JAMBS - ALL OPENINGS)

- 5. The house on the fifth working day Four-ply tar and gravel roofing was applied later.
- 6. Non-bearing partitions are of 2-inch cedar planks. 2" x 3" channel plates on floor and ceiling simplify erection, also serve as moulding.

COST DATA FOR THREE-INCH SOLID CEDAR HOUSE

Because additional costs are encountered on non-project building, the contractor shows here the actual expenses that would occur if built for an individual owner in the Vancouver area. Only 350 man hours would be required to build this house. A 16.6% saving over conventional construction can be achieved.

City permits and fees	\$ 114.00
Excavating	25.00
Grading	20.00
Concrete walls and floors	156.00
Drain, tile and sewer	95.65
Lumber	709.60
Roofing	140.00
Chimney	59.50
Wiring	182.00
Light fixtures	25.00
Plumbing	
Heating	230.00
Flooring	170.00
Painting	320.00
Rough Hardware	31.28
Millwork (including finish hardware)	650.00
Carpenter labor (av. \$1.62 per hr.)	567.46
Compensation	42.56
Overhead and Miscellaneous	
Total	\$4,163.74
Contractor's Fee	416.37
Grand Total	\$4,580.11
	-



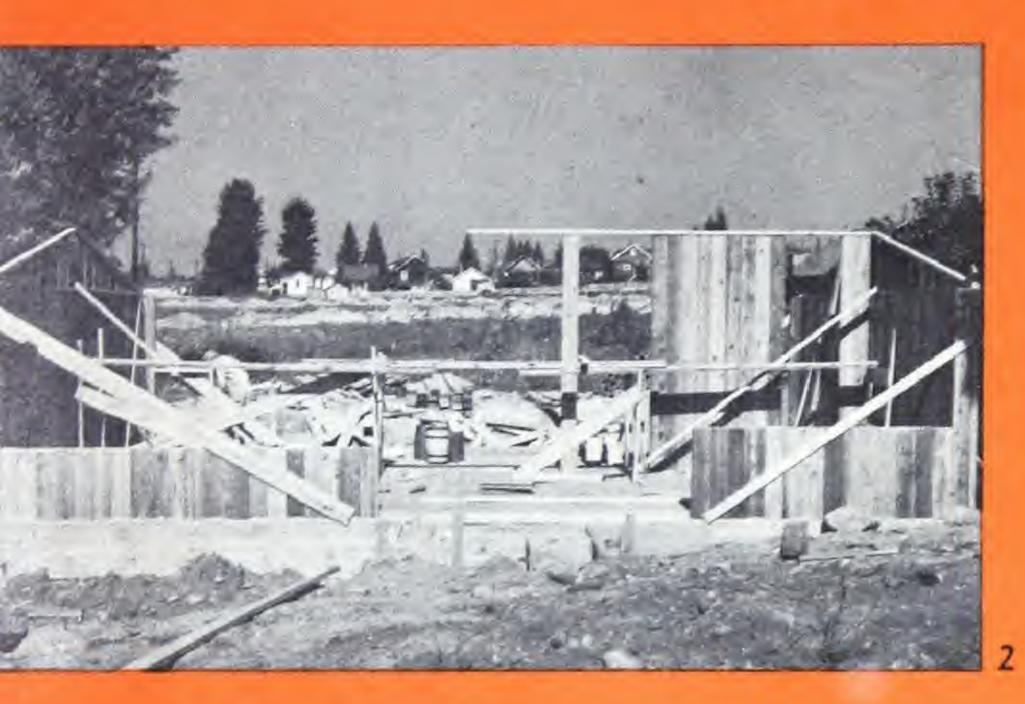


- 7. Electrical outlets are at floor level, switches are on cupboard walls. Windowed wall has been primed for painted finish. End wall has been treated with clear Rez.
- 8. Decorative specialty plywood and batt insulation has been used for both interior and exterior gable ends. Cedar is finished with Redwood Rex.





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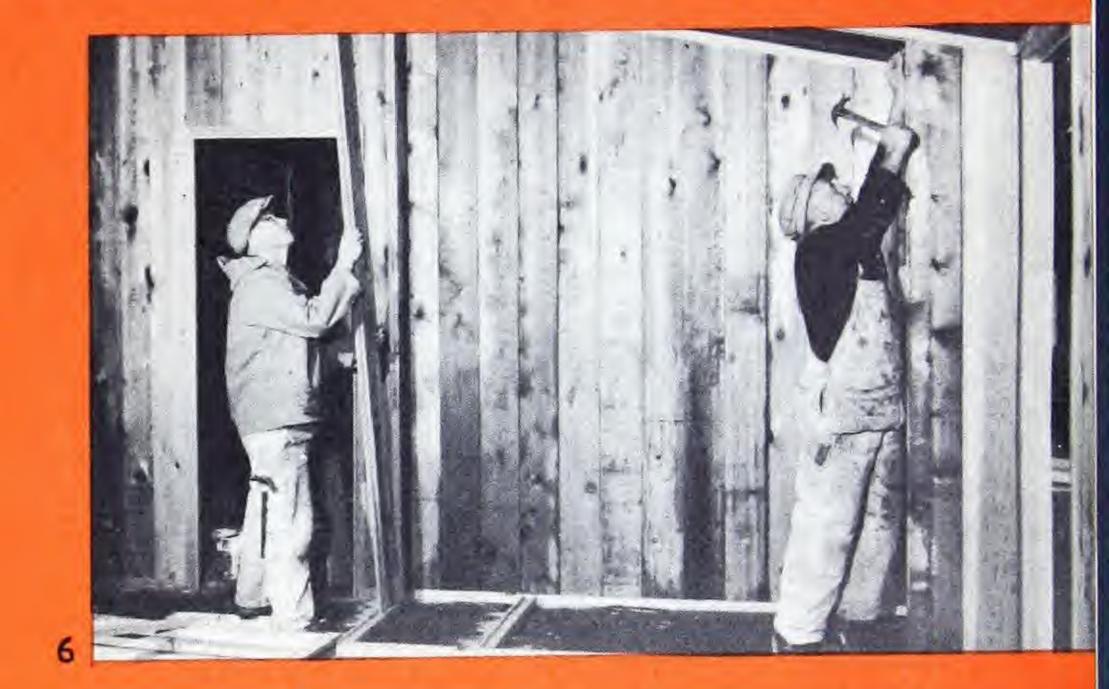
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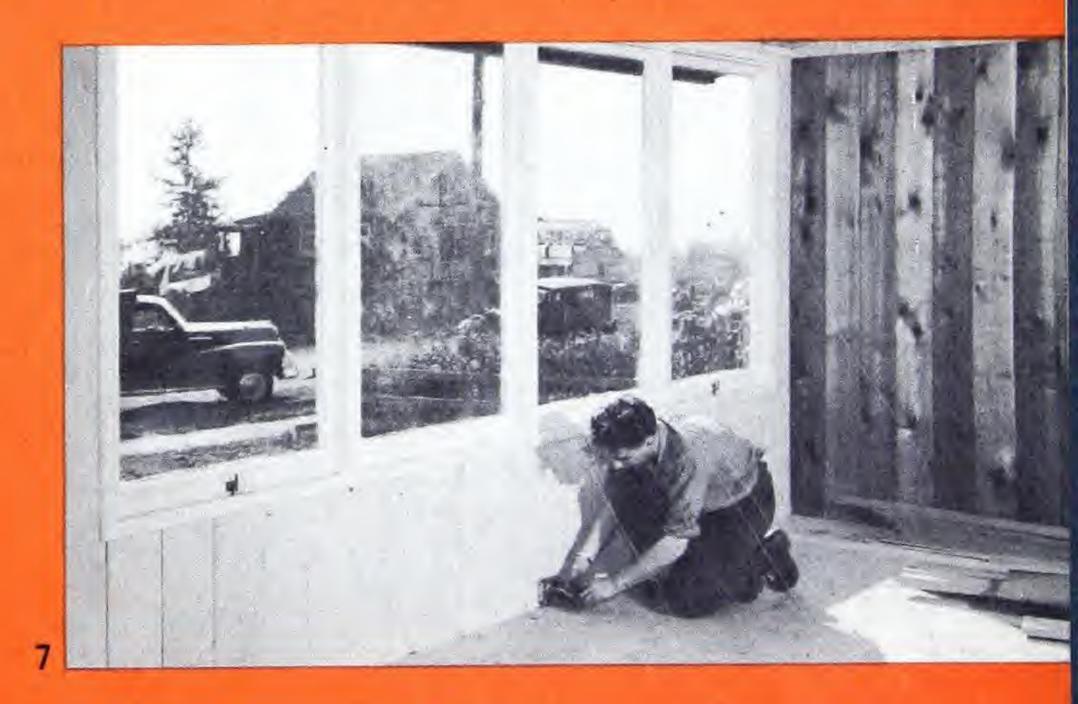
- 5. The house on the fifth working day Four-ply tar and gravel rooting was applied later.
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 2" x 3" channel plates on floor and ceiling simplify erection, also serve as moulding.

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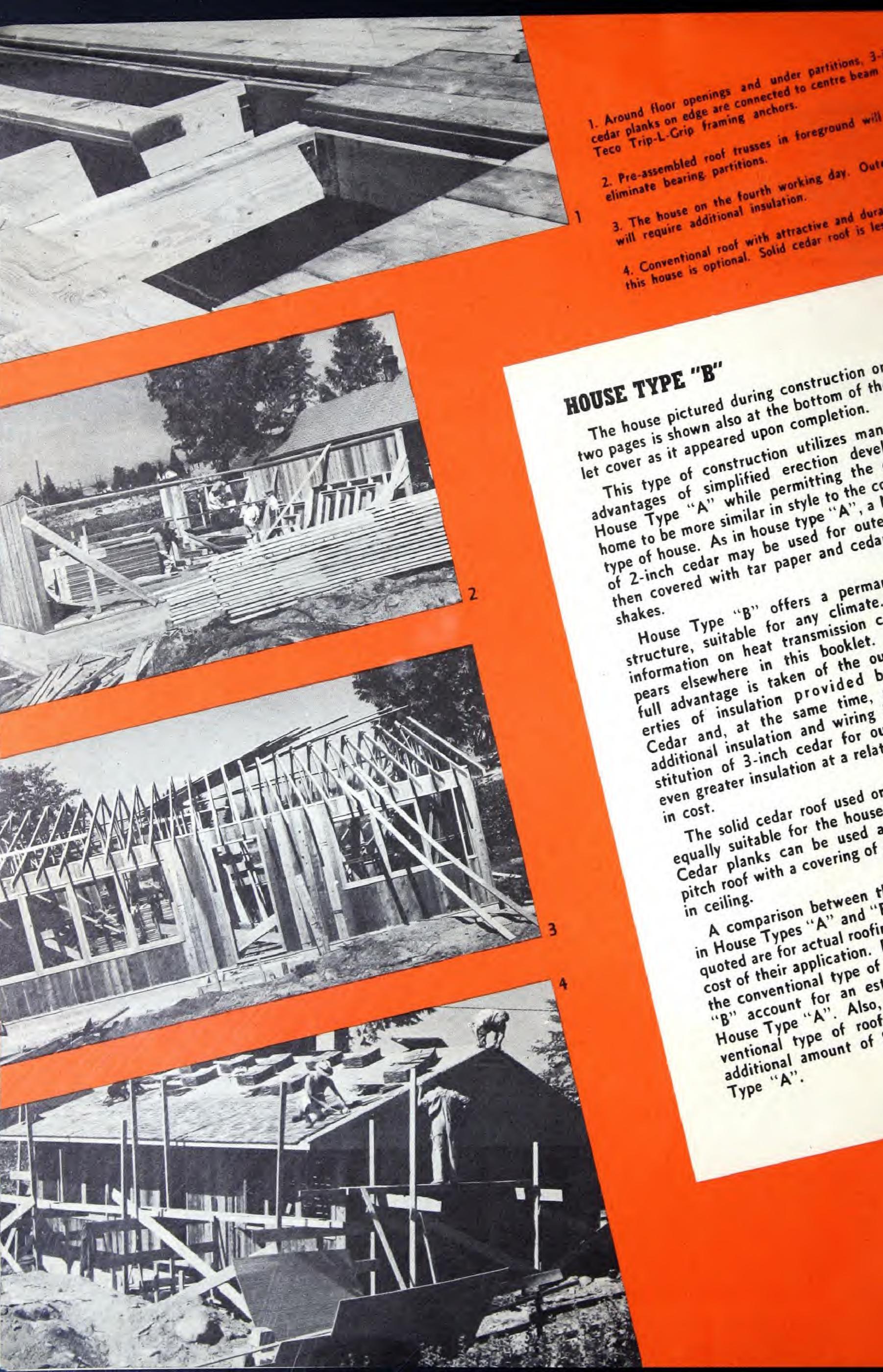
City permits and fees	\$ 114.00
Excavating	
Grading	20.00
Concrete walls and floors	156.00
Drain, tile and sewer	95.65
Lumber	709.60
Roofing	140.00
Chimney	FA FA
Wiring	182.00
Light fixtures	25.00
Plumbing	515.00
Heating	
Flooring	170.00
Painting	320.00
Rough Hardware	. 31.28
Millwork (including finish hardware)	
Carpenter labor (av. \$1.62 per hr.)	567.46
Compensation	
Overhead and Miscellaneous	
Total	\$4,163.74
Contractor's Fee	
Grand Total	\$4,580.11
	-





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1. Around floor openings and under partitions, 3-inch cedar planks on edge are connected to centre beam with

Teco Trip-L-Grip framing anchors.

2. Pre-assembled roof trusses in foreground will span clear from out 3. The house on the fourth working day. Outer walls are of 2-incl

4. Conventional roof with attractive and durable 5X red cedar shirt will require additional insulation.

4. Conventional root with attractive and ourable 2A red cedar 38 this house is optional. Solid cedar root is less costly alternative.

The house pictured during construction on these two pages is shown also at the bottom of the book-

This type of construction utilizes many of the advantages of simplified erection developed for House Type "A" while permitting the completed home to be more similar in style to the conventional type of house. As in house type "A", a No. 3 grade of 2-inch cedar may be used for outer walls and then covered with tar paper and cedar shingles or

House Type "B" offers a permanent, finished structure, suitable for any climate. Comparative information on heat transmission coefficients appears elsewhere in this booklet. In this house full advantage is taken of the outstanding properties of insulation provided by Western Red Cedar and, at the same time, an air space for additional insulation and wiring is obtained. Sub stitution of 3-inch cedar for outer walls provide even greater insulation at a relatively small increa

The solid cedar roof used on House Type "A" is equally suitable for the house shown on this P.e. Cedar planks can be used as well on a stee pitch roof with a covering of shingles and a fra ed-

A comparison between the "roofing" cost ten in House Types "A" and "B" is misleading. quoted are for actual roofing materials and to la cost of their application. Preparatory labor ists the conventional type of roof used on Hole "B" account for an estimated \$44.80 n re House Type "A". Also, painting costs to the ventional type of roof account for an estiadditional amount of \$50 not required or

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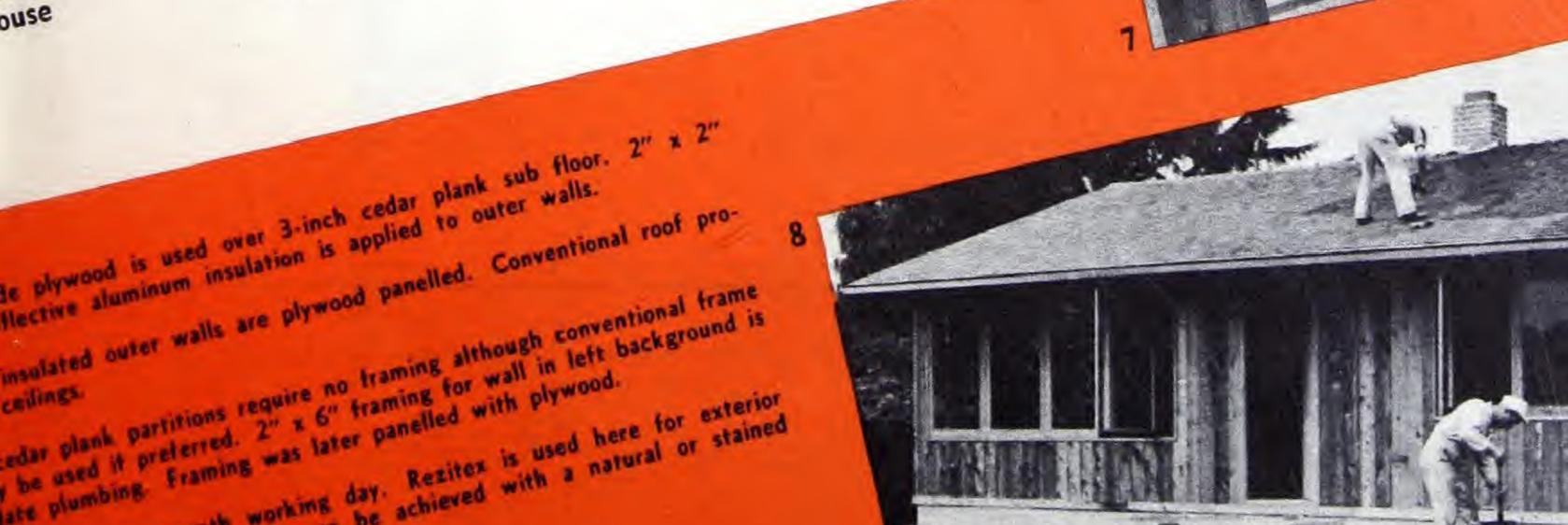
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TA FOR TWO-INCH SOLID CEDAR HOUSE

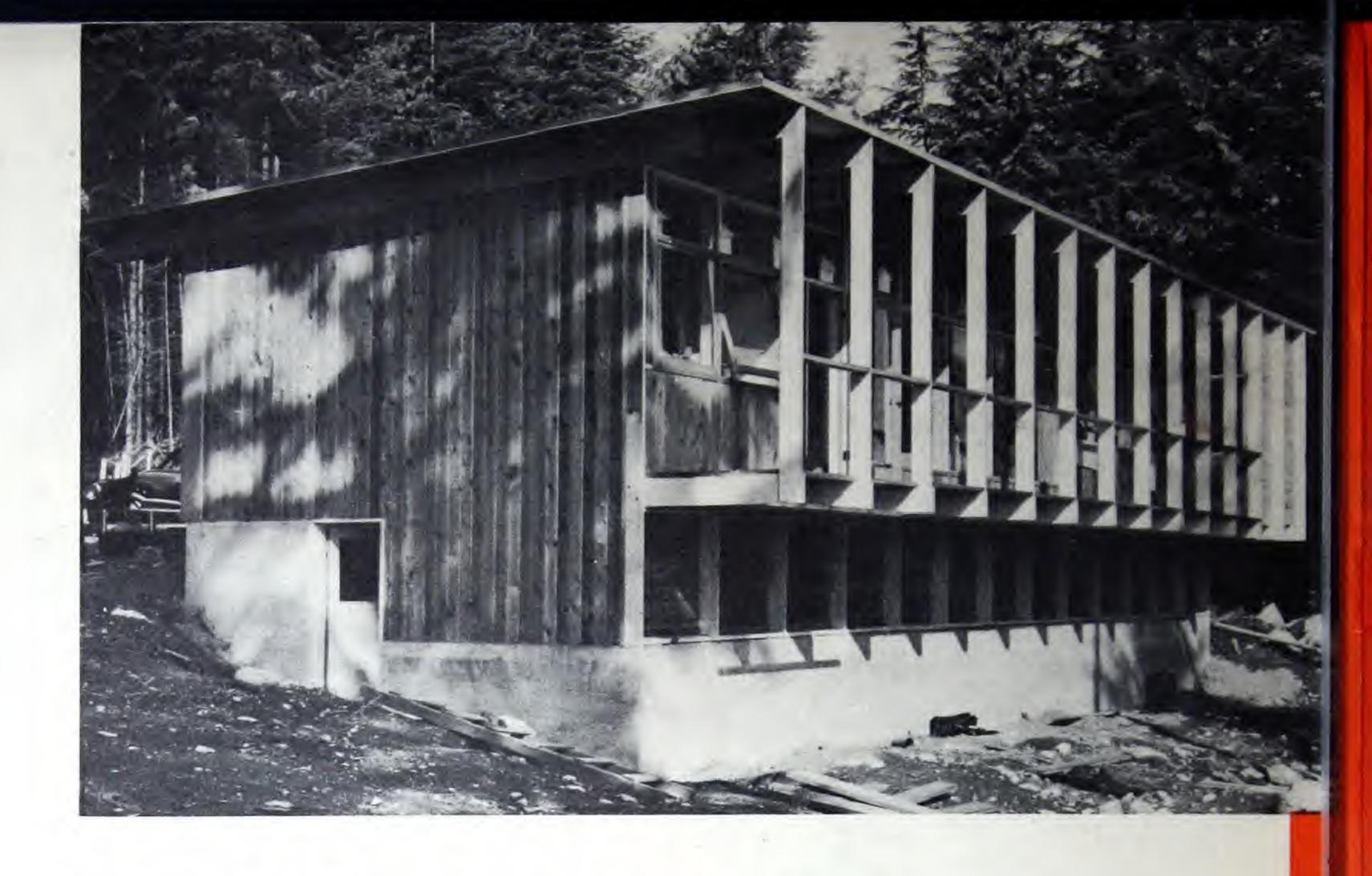
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		14.00
	ity permits and fees	25.00
	interpretation of the contract	20.00
	mits and fees	156.00
C	ity permitt	ar 65
F	ity permits xcavating Xcavating Grading Concrete walls and floors Concrete walls and sewer Drain, tile and sewer	778.86
	Grading walls and floor	126.55
	Concrete walls and to Concrete walls and sewer Drain, tile and sewer	80.50
	Drain, tile	174.00
	Drain, The Lumber Roofing	35.00
	Lumber Roofing Chimney Wiring	515.00
	Roofing Chimney Wiring Light fixtures	515.00
	Wiring	230.00
	Light fixtures	84.82
	Wiring Light fixtures Plumbing Heating	170.00
	Heating	370.00
	1-5110	- 00
	Painting Rough Hardware Rough (including finish hardware) Rough (including \$1.62 per hr.)	620.00
	Painting Hardware finish hardwar	e) 725.24
0	Panish Hardware finish nor hr.)	54.39
	William Papor 194.	
	Carpenter tion	-25 59
	Comben. "Y Wise	-256
1	Overhead all	452.56
7	Carpenter laboration Compensation Overhead and miscellaneous Total Contractor's Fee	15
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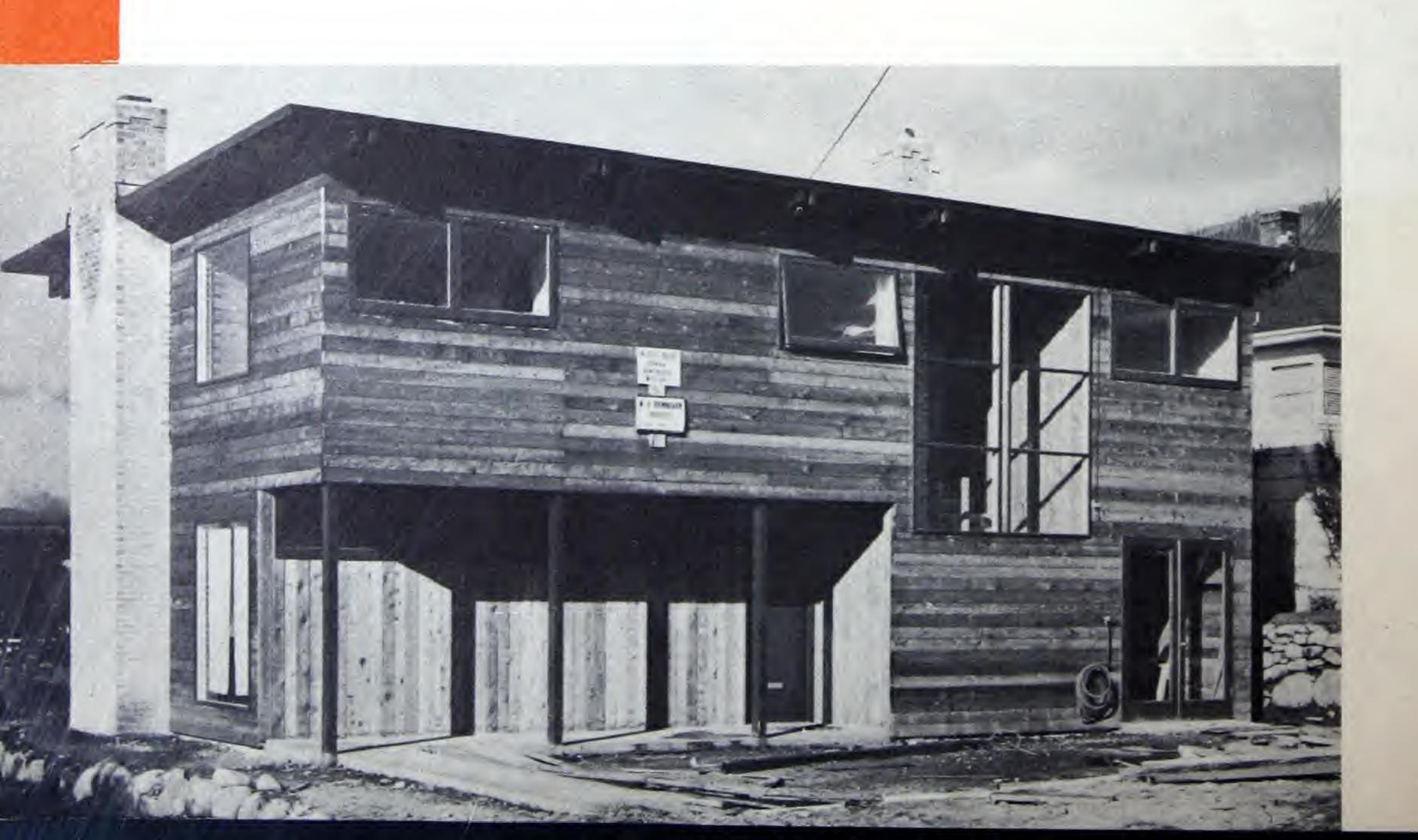
ate plumbing Framing was later panelled with plywood. on the fourteenth working day. Rezitex is used here for exterior and modern rustic effect can be achieved with a natural or stained





ARCHITECTS FIND UNLIMITED SCOPE IN DESIGNING HOUSES OF SOLID CEDAR

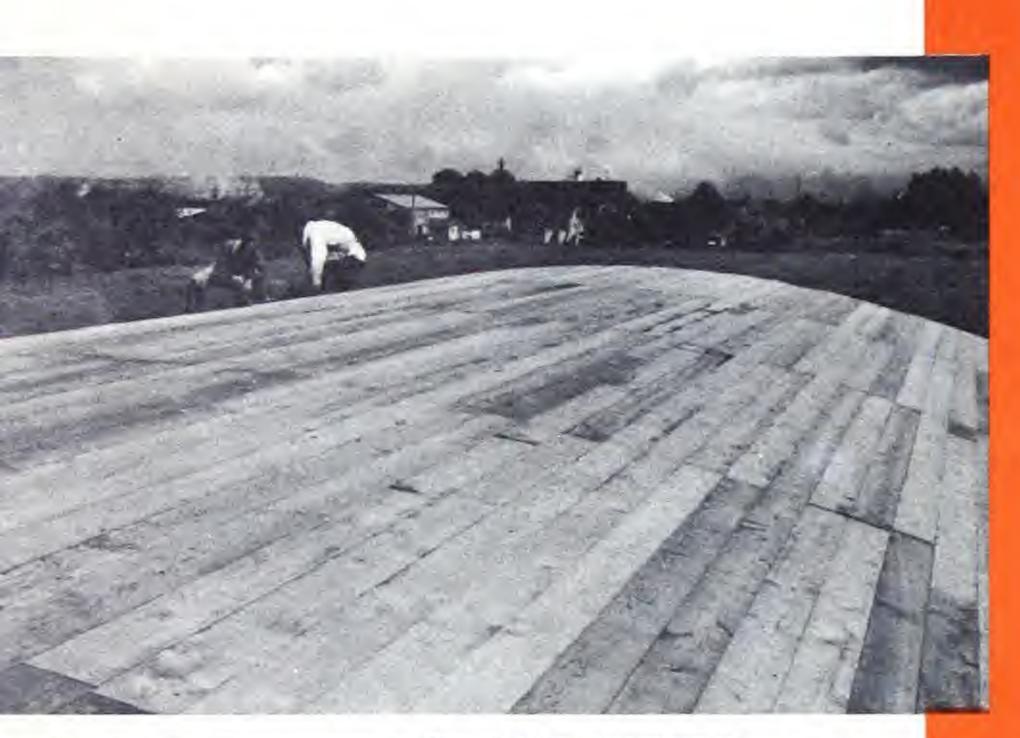
TYPICAL of many interesting developments in solid cedar construction are the houses shown on these two pages. Leading Vancouver architects, such as W. H. Birmingham, R. R. McKee, J. S. Porter, C. E. Pratt, D. C. Simpson and C. B. K. Van Norman are designing an increasing number of solid cedar houses of beauty and individuality.





BUILDERS USE SOLID CEDAR FOR MANY TYPES OF BUILDINGS

The simplicity and speed of erection of solid cedar construction has captured the attention of builders for a wide range of utility structures. Such applications as garages, warehouses, tourist cabins, summer cottages, granaries, silos, implement sheds, portable hog pens, barns, chicken houses, etc., point the way to better buildings at lower cost.







STRUCTURAL WORKING FACTORS FOR No. 2 AND BTR. CEDAR PLANKS

WALLS

2" cedar with 2"x2" strapping 16" o.c.

- 8' column height

ROOF

2" cedar

3" cedar

3" cedar

- 6' 10" span on low pitch or flat roof to support

- 8' column height

- 11' span on low pitch or flat roof to support 40-lb. snow load.

40-lb. snow load.

FLOOR

2" cedar

- 6' span to support 40-lb.

live load.

3" cedar

-10' span to support 40-lb. live load.

MODULE

An 8" width cedar plank with 1/2" x 3/4" tongue has a face measure of 7" and should be used on a module of 7-1/64 inches.

SIZE

Nominal sizes of 4" to 12" in width and 2" to 4" in thickness can be obtained. Finished thicknesses are 3/8" less.

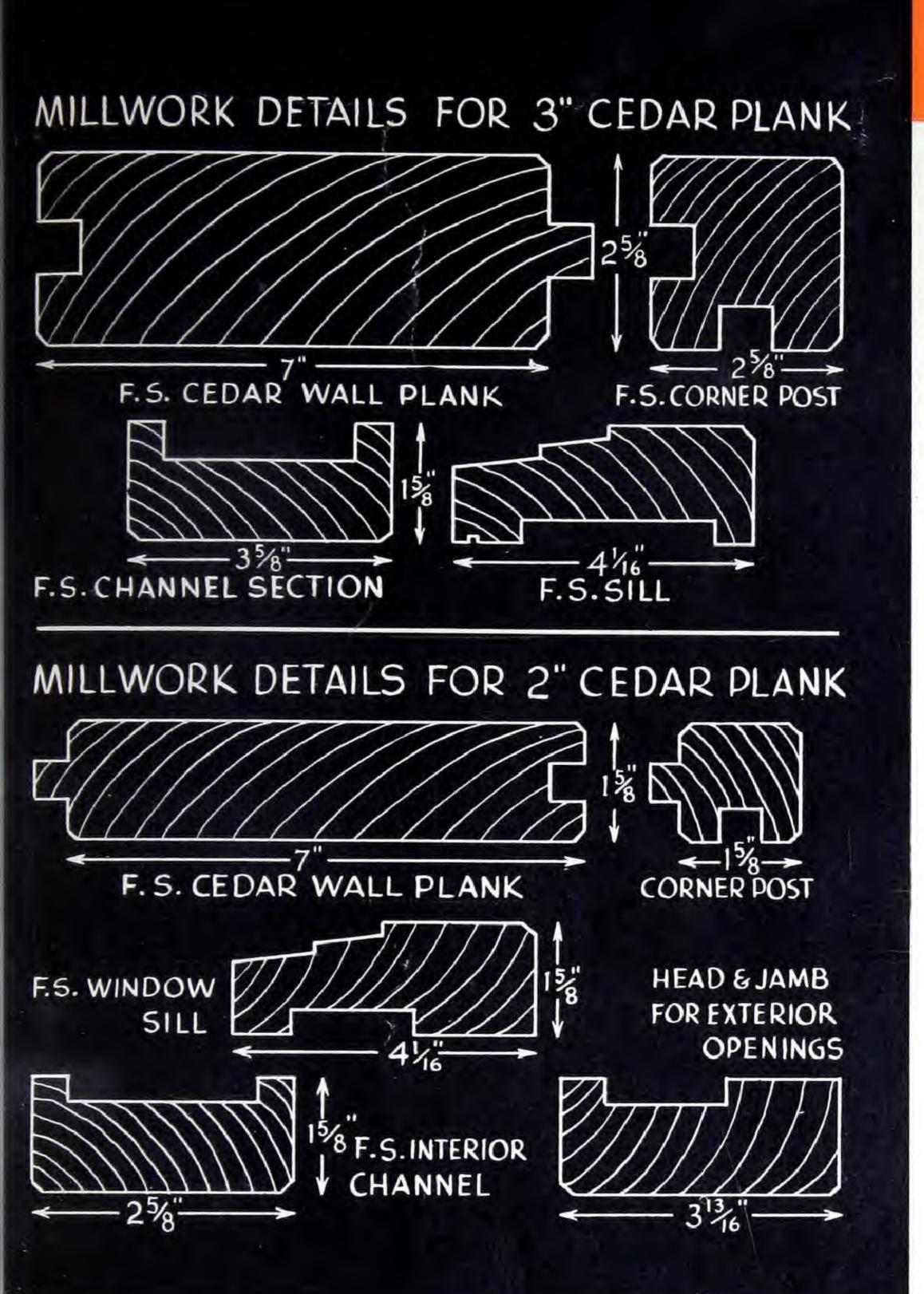
GRADE

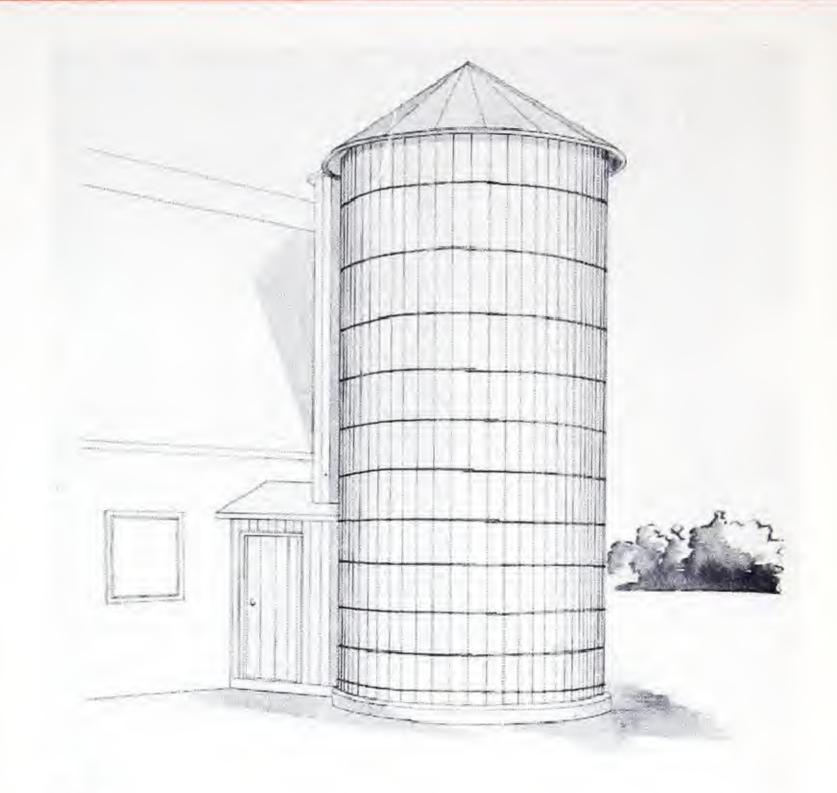
Straight or mixed grades of No. 1, No. 2 or No. 3 cedar planks are available.

SUPPLY

Cedar planks can be purchased from most retail lumber dealers at low cost.







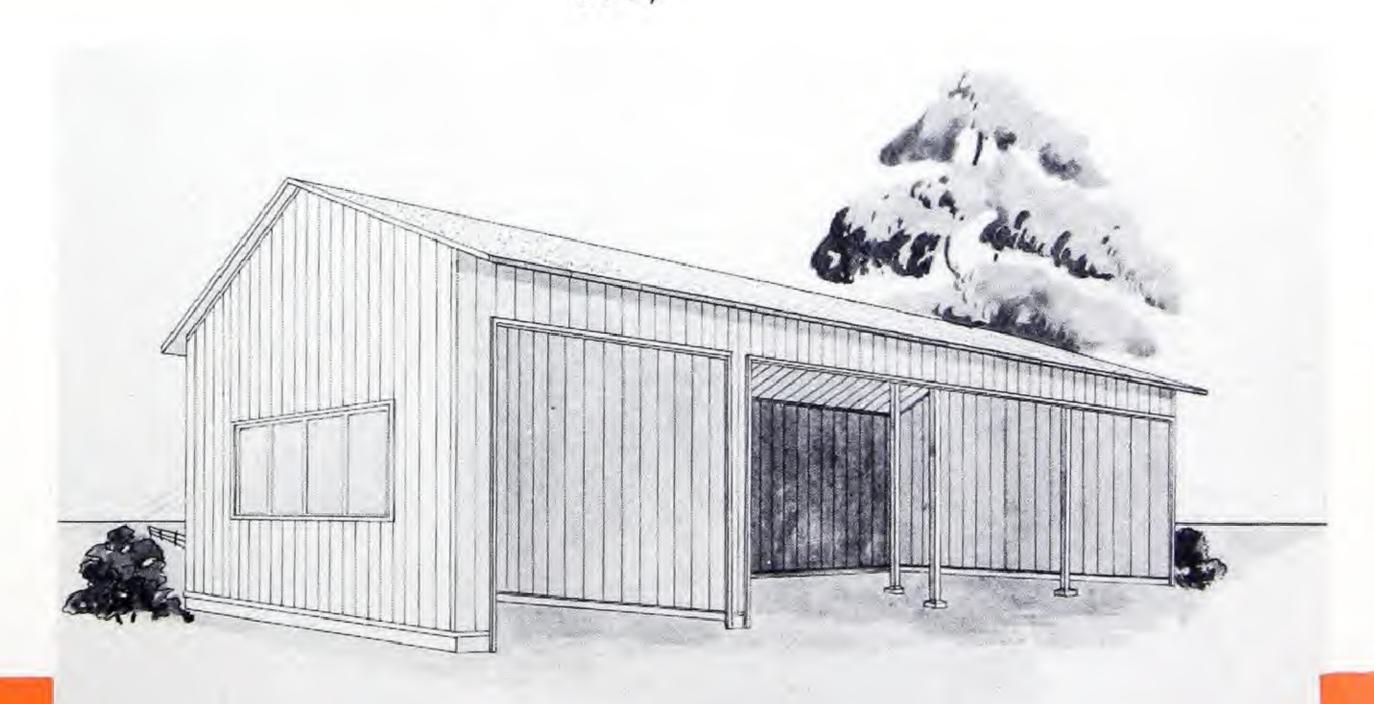
Silo

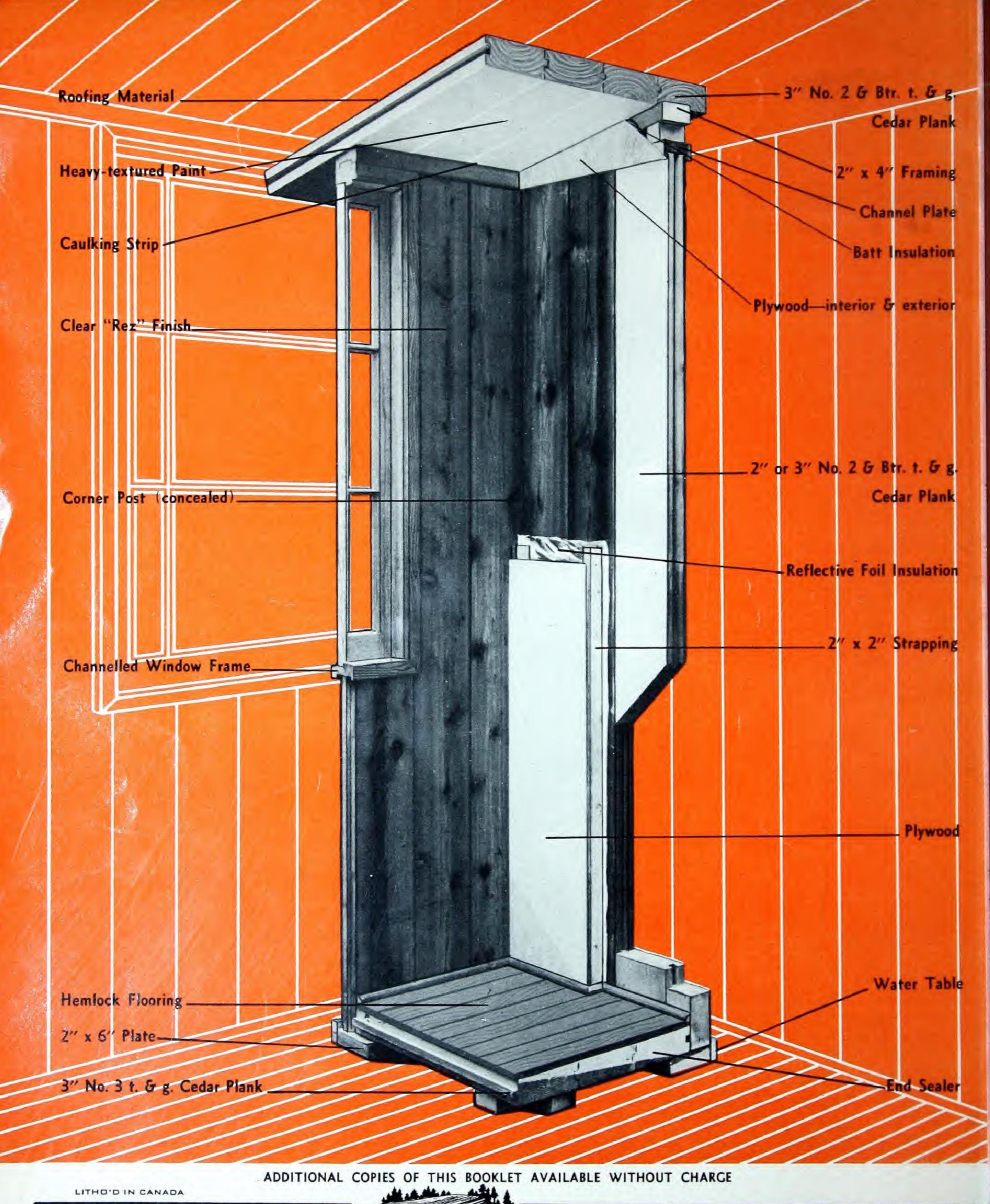


Granary

Job sheets are available upon request for a number of solid cedar farm buildings. Examples of three such buildings are shown on this page.

Write to B. C. Coast Woods, 837 West Hastings Street, Vancouver, B. C., for additional information on type of building needed.





B.C. COAST WOODS

837 WEST HASTINGS STREET

DOUGLAS FIR

WESTERN RED CEDAR
SITKA SPRUCE



VANCOUVER, B. C., CANADA

SUNPRINTING

